Repower Systems AG

Management system for the operation of a wind turbine

Patent Claims:

1. A management system for the operation of a wind turbine (1), which regulates the power output of the turbine (1), wherein the wind turbine (1) comprises a rotor (3) with at least one rotor blade (5) that is positioned at an adjustable angle to the rotor (3) and wherein the management system regulates the rotor speed within a predefined wind speed range by varying the rotor blade angle in order to set a nominal output and reduces the output in excess of a defined wind-speed-dependent threshold value, characterized in that
the threshold value is a defined rotor blade limiting angle.

2. A management system according to Claim 1, characterized in that it varies the rotor blade angle in order to reduce the output.

3. A management system according to Claim 2, characterized in that it increases the rotor blade angle in order to reduce the output.

4. A management system according to Claim 1, characterized in that it maintains the rotor blade angle at a constant value until the nominal output is reached.

5. A management system according to Claim 1, characterized in that, once the nominal output has been reached, it adjusts the rotor blade angle in relation to the wind speed in order to maintain the nominal output at a constant value.